



## 2090nm BP/Partial Mirror Hybrid

### FEATURES

- High Isolation
- Low Insertion Loss
- Epoxy-Free Optical Path
- High Reliability and Stability
- Low Profile Packaging

### APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Metro Networks
- CATV Networks

### SPECIFICATIONS

Parameters	Unit	Value	
Center Wavelength	nm	2090	
Min. Bandwidth@0.5dB	nm	20.0	
Excess Loss	dB	≤1.8	
Stop Band @25dB	nm	2030-2070 & 2110-2150	
Reflective Ratio	%	1±0.6, 2±0.8, 5±1, 10, 20, 30, 40, 50, 80, 90	
Configuration	D Type	-	
	Y Type	-	
Fiber Type at 3 <sup>rd</sup> Port (Only for Y Type)	-	2-port 3-port, (Blocked Wavelength Guide Out)	
Optical Return Loss	dB	Same Fiber or 50/125um MM Fiber ≥45	
PDL	dB	≤0.15	
Fiber Type	-	SMF-28 Fiber or SM1950 Fiber (V)	
	-	10/130um DC Fiber (O) or 25/250um DC Fiber (R)	
Fiber Tensile Load	N	5	
Max. Optical Power (CW)	mW	300	
Operating Temperature	°C	0~50	
Storage Temperature	°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	(Ø)5.5x35
	Metal Box	mm	(L)120x(W)12x(H)10

- Note:**
1. Specifications are for device without connectors; Specifications may change without notice.
  2. To add connectors, IL is 0.3dB higher, RL is 5dB lower.
  3. Suggest to use Y type if blocked optical power is >1W.
  4. Devices for higher optical power or with other type fiber or consigned fiber are also available; Devices can only work in the core of Double Cladding (DC) Fiber, Cladding Power must be stripped before connecting the device.

### ORDERING INFORMATION (PN)

<b>FHBR-NNNN</b>	-	<b>NNN</b>		<b>NN</b>	-	<b>(C)</b>	-	<b>(C)</b>		<b>(C)</b>		<b>C</b>		<b>NN</b>	-	<b>CC/CCC</b>																		
<i>Center Wavelength</i>		<i>Bandwidth</i>		<i>Ref. Ratio</i>		<i>3rd Port Fiber</i>		<i>Package</i>		<i>Fiber Type</i>		<i>Fiber Sleeve</i>		<i>Fiber Length</i>		<i>Connector Type</i>																		
2090	-	2090nm		200	-	20nm		01	-	1%		Y	-	Same Fiber		M	-	Metal Box		V	-	SM1950 Fiber		B	-	Bare fiber		05	-	0.5m		N	-	Without Connector
				05	-	5%		5	-	50/125um Fiber		Blank	-	for SST		O	-	10/130 DC Fiber		L	-	Loose Tube		10	-	1.0m		FC/APC	-	FC/APC Connector				
				50	-	50%		Blank	-	for D Type		R	-	25/250 DC Fiber		2	-	2mm Cable		15	-	1.5m		LC/PC	-	LC/PC Connector								
				90	-	90%			-			Blank	-	for SMF-28 Fiber		3	-	3mm Cable		20	-	2.0m		SC/UPC	-	SC/UPC Connector								